Great River Energy Overview

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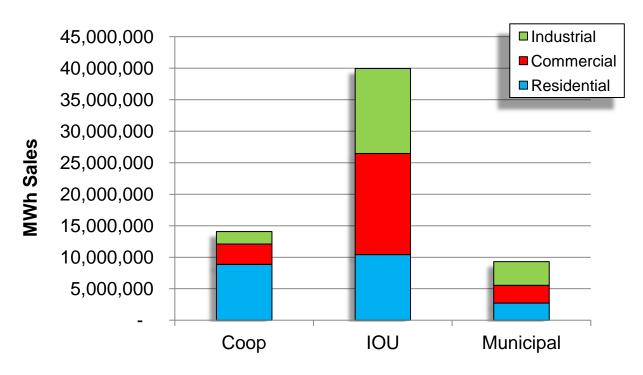
Great River Energy

- 28 member cooperatives
 - Serving 650,000 members
 - 92% of members are residential
 - 7.5 members/mile
- 870 employees (MN and ND)
- 3,619 MW generation
- 4,600 miles transmission lines





MN retail electric sales



	Residential	Commercial	Industrial	Total
Со-ор	63%	23%	14%	100%
IOU	26%	40%	34%	100%
Muni	29%	30%	40%	100%





Generation resources

Baseload plants

Coal Creek 1,141 MW

Stanton189 MW

Spiritwood Station99 MW

– Genoa #3
143 MW

Biomass

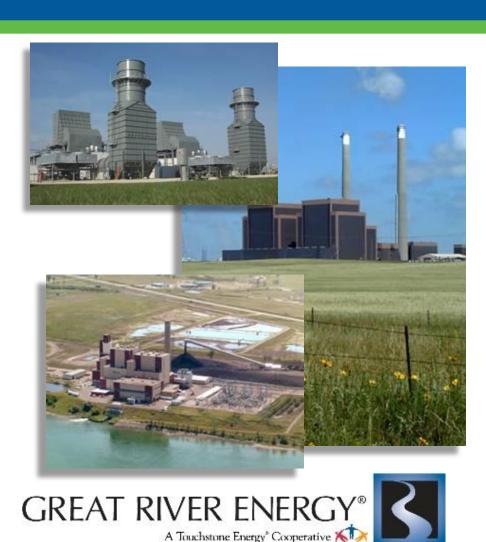
– Elk River Station 30 MW

Peaking plants

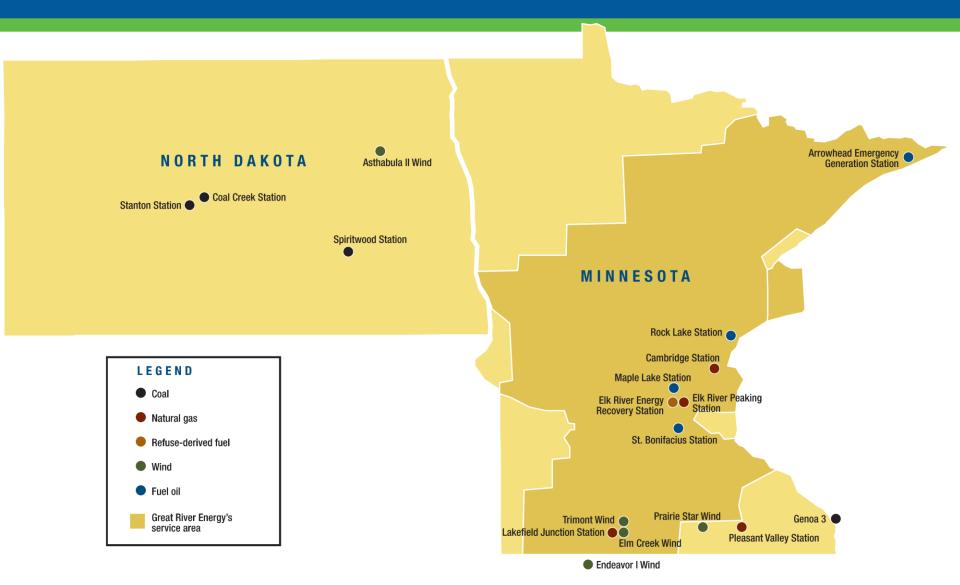
– 8 MN locations 1,400 MW

Wind resources

– 8 MN locations 470 MW



Generation resources



Renewable energy resources

Wind power: 470 MW

Ashtabula II, Elm Creek Wind,
 Endeavor, Trimont Wind,
 Prairie Star Wind and
 three smaller wind farms

Elk River Station: 30 MW

Elk River Landfill: 3 MW

Morris, MN dairy farms: 5 MW

Total: 508 MW





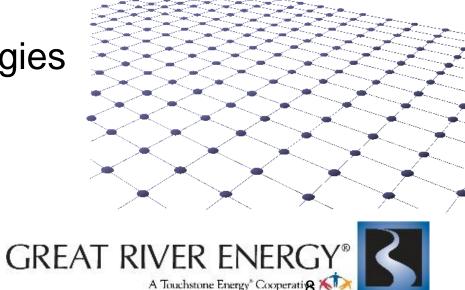
Renewable energy standard

- Sufficient renewable resources in place to meet the Minnesota RES through 2024.
- Concerned about the cost of wind energy Vs current wholesale energy prices
- Challenging to add any new resources during a period of no growth
- Continuing to research end-uses that are more compatible with wind energy



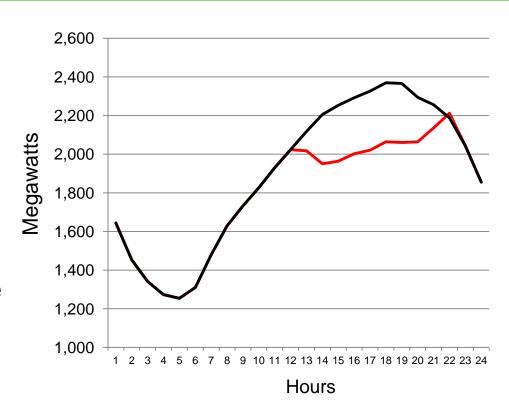
Conservation Improvement Program

- Meeting all CIP goals and requirements
- Cost per kWh saved equals \$.15/kWh
- Continue to evolve CIP program portfolio
 - Behavior programs
 - More efficient technologies
 - Weatherization efforts



Demand response

- Nationally recognized program
- Over 350,000 controlled loads
- Reduces peak demand by over 350 Megawatts
- DOE recognizing the value of demand response
- Smart appliances, smart pricing, electric vehicles, electric storage





Carbon emissions

